Purchasing Receipts

Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200 Fax 613 632-5246

1	7	
Supplier	\$707.65 McMaster- Carr	Supply Co,
	\$707.65	\$707.65
ast		- 01
Aging F Days	4	
Price/Unit	Stock 8/10/2018 \$ 117.94 / ft	
Receive Date	8/10/2018	
Status	Stock	
Container No	\$102066	
Equipment Order Due Received Accounting Container Status Date Price/Unit Aging Past Total		
Received /	9	9
Due Date	6 8/17/2018	
Order	9	9
Equipment iD		Total:
Project		
For Part No		
Description Part Project	Brass C360 Round Bar 2.500***	
hased em	11 1 2% 10 MT-BRASS- Brass C360 Net 30 C360-R2.500 Round Bar 2.500***	
Terms	2% 10 Net 30	
Rel	_	
Line Item Flo	=======================================	
PO No Supplier Item No Terms Item	PO040531 MCM001-	
PO No	PO040531	

Plex 8/14/2018 11:12 AM dart. Tollis. Andrew



## Packing List

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order PO040531

Order Placed By Chantal Lavoie

Page 1 of 2 08/08/2018

McMaster-Carr Number 6559637-05

Lin	e	Product 6559637-05	Ordered	Shipped
11	2572T77	Ultra-Machinable 360 Brass Rod with Certification, 2-1/2" Diameter, 6 Feet Long	1 Each	1
Shi	ipped separa	ately from our Cleveland warehouse on 07/20		
1	54175A74	6-Point Standard Impact Socket, 3/4" Square Drive, 50mm Size	3 Each	2
2	7856K75	Heat-Shrink Tubing, 25 Feet Long, 0.25" ID Before Shrinking, Black	2 Each	2
3	91610A209	18-8 Stainless Steel Slotted Spring Pin, 2mm Diameter, 18mm Long	2 Packs	2
4	91292A142	18-8 Stainless Steel Socket Head Screw, M6 x 1 mm Thread, 40 mm Long	2 Packs	2
5	91698A306	Black-Oxide 18-8 Stainless Steel Phillips Flat Head Screws, M3 $\times$ 0.5 mm Thread, 10 mm Long	1 Pack	1
6	91292A138	18-8 Stainless Steel Socket Head Screw, M6 x 1 mm Thread, 25 mm Long	1 Pack	1
7	8993K72	304 Stainless Steel 90 Degree Angle, 1/4" Wall Thickness, 3" x 3" Outside, 6 Feet Long	1 Each	1
8	93625A200	18-8 Stainless Steel Nylon-Insert Locknut, M5 x 0.8 mm Thread	1 Pack	1
9	90128A268	Zinc-Plated Alloy Steel Socket Head Screw, M6 x 1 mm Thread, 40 mm Long	1 Pack	1
10	91654A106	18-8 Stainless Steel Screw Nails for Metal, Plastic & Plywood, Size 4, 1/4" Long	1 Pack	1
12	8575K254	Black Delrin® Acetal Resin Sheet, 5/64" Thick, 24" Wide x 24" Length	1 Each	1
13	91287A461	18-8 Stainless Steel Hex Head Screw, M8 x 1.25 mm Thread, 120 mm Long, Fully Threaded	2 Packs	2

### Packing List

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com

Line

Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order PO040531

Order Placed By Chantal Lavoie

McMaster-Carr Number 6559637-05

Page 2 of 2

08/08/2018

Shipped separately from our Chicago warehouse on 07/20

Description

54175A74 6-Point Standard Impact Socket, 3/4" Square Drive, 50mm Size

3 Each

Ordered Shipped

1



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

### PURCHASE ORDER PO040531

Tel (613) 632-5200

Supplier:

MCM001-VU

McMaster-Carr Supply Co,

P.O. Box 7690

Chicago, IL 60680-7690 USA

Phone: 330 995 5500 Fax: 330 995 9600

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 PO No:

PO040531

PO Date: Due Date: 7/18/18 8/17/18

Purchase Order Revision:

Revision Date:

Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Via:

Ground

Pymt Terms:

2% 10 Net 30

Freight Terms: Special Comments:

Items

Line Item	 Part	Supplier Part No	Description	Status	Account	Due Date		Received Quantity	Unit Price (USD)	Extended Price
11/A/	MT- BRASS- C360- R2.500	2572T77 6FT	Brass C360 Round Bar 2.500"	Firmed	-	8/17/18	6 ft	Coff of	\$117.94166/ft A(13/03)	4

**Order Notes** 

**Procurement Quality Clauses** 

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 DOCUMENT SPECIAL REQUIREMENTS

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit <a href="https://www.darlaerospace.com">www.darlaerospace.com</a> for further explanation.

Plex 8/14/18 10:32 AM dart.lavoie.chantal

**Grand Total:** 

\$707.65

## McMASTER-CARR.

8/14/2018

# Ultra-Machinable 360 Brass Rod with Certification, 2-1/2" Diameter

2572T77



	1
Material	360 Brass
Cross Section Shape	Round
Construction	Solid
Appearance	Plain
Diameter	21/2")
Diameter Tolerance Range	-0.066" to 0.006"
Tolerance Rating -	Standard
Yield Strength	15,000 psi
Fabrication	Cold Worked
Temper	Н02
Temper Rating	1/2 Hard
Hardness	Rockwell B25
Hardness Rating	Soft
Certification	Material Certificate with Traceable Lot Number and Test Report
Heat Treatable	No
Specifications Met	ASTM B16
Density	0.307 lbs./cu. in.
Surface Resistivity	39.9 Ohms
Melting Point Temperature	1630° F
Modulus of Elasticity	$14.0 \text{ ksi} \times 10^3$

8/14/2018

Thermal Conductivity	67 Btu/hrft°F @ 68° F
Elongation	25%
Material Composition	
Copper	%69-09
tron	0-0.35%
Lead	2,5-3.7%
Silicon	0-0.17%
Zinc	32.95-37.15%
Length Tolerance Range	-0.5" to 0.5"
Length	1/2 ft., 1 ft., 2 ft., 3 ft., 6 ft.

These rods come with a traceable lot number and test report. With the highest lead content of all the brass alloys, 360 offers the best machinability. Often called free-machining and free-cutting brass, it stands up to high-speed drilling, milling, and tapping operations with minimal wear on your tools. It's commonly used for gears, pinions, and lock components.

Not Compliant

RoHS



### Non-Ferrous Metal Works (SA) (Pty) Ltd

### **EXTRUSION DIVISION**

1 The Avenue East, Prospection, Kwa-Zulu Natal, South Africa

Reg. No.:

1951/000559/07

Telephone: +27 (31) 902 7470 Fax: +25 (31) 902 8865

### **TEST CERTIFICATE**

Customer AVIVA METALS, INC. PO BOX 800818 HOUSTON TEXAS 77280 United States	Test Certificate Number Works Order Number Sales Order Number Delivery Note No Invoice Number Purchase Order No. Alloy Quantity Ordered Weight Despatched	COC022691 WO0021809 SO00559573 SO-DN00009007 SO-IN00309504 HOU-13191-KZ (360) 8900 Lbs			
Description  2-1/2" DIA X 12 FT ROUND BAR Free Cutting Brass HALF HARD	Specifications ASTM B16 C36000 [16 ASTM B249 [17]	4334.244 Lbs			

### Mechanical/Physical Test Results

Size 1	Size 2	Size 2 Area		Yield Strength		igth	Elongation	Hardness			
mm	mm	mm²	Kg/mm²	PSI	Kg/mm²	PSI	%	Vickers	Brinell	Rockwell	
20.00	0.00	314.20	28.48	40,492.80	37.87	53,855.43	33.00	0.00	0.00	61.70	
19.99	0.00	313.89	28.73	40,857.23	38.07	54,135.83	32.50	0.00	0.00	61.70	

				Chem	nical (	Comp	ositio	on				
Charge Number	Cu	Zn	Fe	Mn	Al	Ni	Sn	Pb	Si	As	Р	Те
E1501	61.220	35.191	0.280	0.000	0.000	0.100	0.300	2.890	0.000	0.000	0.000	0.000
Charge Number	Sb	Mg	Ti	Со	Cd	Sr	Cr	Ca	Other			
E1501	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	-		



### Remarks

MATERIAL HAS PASSED THE MERCUROUS NITRATE CRACK TEST IN ACCORDANCE WITH ASTM B-154 SPECS [12] WHERE APPLICABLE

> QUALITY CONTROLLED

We certify that the material is free from mercury contamination Signed for on behalf

Non-Ferrous Metal Works(SA) (PTY) Ltd

Quality Manager

2018/04/24

Date

Metallurgist

BY APPROVED WM BRASS C360 ROUND BAR V. MT-BRASS-C360-R 17.11.22 DATE ECN# 17-732 TOLERANCES PER MANUFACTURER SPECIFICATIONS DESCRIPTION NEW ISSUE WHERE D.DDD IS DIAMETER IN INCHES SPECIFICATION CONTROL DRAWING MT-BRASS-C360-R-[D.DDD] MT-BRASS-C360-R-0.250 REV. ¢360 BRASS ASTM B16 PURCHASE MATERIAL: SPECIFICATION: PART NUMBER: **EXAMPLE**: 0

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### **MATERIAL RECEIPT INSPECTION FORM**

MATERIAL: <u>MT-BI</u> DATE: <u>18/08</u>	(14	-63	500		PO / BATCH	NO.: <u>PODYOS</u>	31/5102066			
MATERIAL CERT REC'D: Les  QUANTITY RECEIVED: GAT			_	THICKNESS ORDERED: 2.500" THICKNESS RECEIVED: 2.500"						
QUANTITY INSPECTED: 6CH			_				)			
QUANTITY REJECTED:	-			SHEET SIZE ORDERED:						
dominin health.				-	SHE	ET SIZE RECEI	VED			
DESCRIPTION		eck				COMMEN	TS			
	Y//	-								
SURFACE DAMAGE	Y	(N)								
CORRECT FINISH	(Y)	N								
CORROSION CORRECT GRAIN DIRECTION	(A)	N								
CORRECT MATERIAL PER M-DRAWING	(Y)	N	101	U BK	-					
CORRECT THICKNESS	m	N	145/1	1560						
PHOTO REQUIRED	Y	(M)	^							
CORRECT REF # TO LINK CERT	(Y)	N	10040	531						
CORRECT MATERIAL IDENTFICATION	(Y)	Ν	1111							
CORRECT M# ON THE MATERIAL	(M)	N								
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N								
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(N)								
CUT SAMPLE PIECE				AND PRE			SS CHECK.			
			HRC	HR	В	DUR A	DUR D	WEBSTER		
TYPE OF MATERIAL	-									
SIZE OF TEST SAMPLE										
HARDNESS / DUROMETER READIN		-4	In a star of the	4-0-7						
	<u>re:</u>	sters	iocated in	the Quali	ty Ome	<u>ce</u>				
QC 18 INSPECTION						ENGINEER	ING SIGNOE	F (if required)		
INSPECTED BY:					SIGN	NED OFF BY:	1	· (ii required)		
DATE: /8/08/14						DATE:				
10/00//1						Drite.				

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in